

Title (en)
INTRAMEDULLARY FIXATION DEVICE

Title (de)
INTRAMEDULLÄRE FIXIERVORRICHTUNG

Title (fr)
DISPOSITIF DE FIXATION INTRAMÉDULLAIRE

Publication
EP 3476320 B1 20210714 (EN)

Application
EP 17850343 A 20170918

Priority
• ES 201631220 A 20160919
• ES 2017070619 W 20170918

Abstract (en)
[origin: EP3476320A1] Intramedullary fixation device, having an intramedullary rod (2) which is provided for insertion thereof into a bone (1) and consists of a central screw (4) having a first free end comprising a stopper (7) and a second free end with a pre-tensioning nut (8), an alternating series of expanders (3) and bolts (5) being arranged in between, the bolt surfaces in contact with the expanders (3) having a wedge shape. The bolts (5) or expanders (3) may have no, or one or more variations in the dimensions of the different geometric parameters, in accordance with the adjacent expanders, along the length of the implant, and the central screw (4) may have a variable cross section. The device may have different additional components, such as an osteotomic base (9) for fixation of the musculature. The device promotes maximum nailing limited between these elements and produces a controlled peripheral radial deformation.

IPC 8 full level
A61B 17/72 (2006.01); **A61F 2/36** (2006.01); **A61F 2/78** (2006.01); **A61B 17/74** (2006.01)

CPC (source: EP ES US)
A61B 17/7275 (2013.01 - EP ES US); **A61F 2/30749** (2013.01 - US); **A61F 2/36** (2013.01 - EP); **A61F 2/3601** (2013.01 - US); **A61F 2/3609** (2013.01 - EP); **A61F 2/3662** (2013.01 - EP); **A61F 2/78** (2013.01 - EP); **A61B 17/744** (2013.01 - EP); **A61F 2002/30777** (2013.01 - US); **A61F 2002/3652** (2013.01 - EP); **A61F 2002/7887** (2013.01 - EP US)

Cited by
EP4252715A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3476320 A1 20190501; **EP 3476320 A4 20200304**; **EP 3476320 B1 20210714**; BR 112018076496 A2 20190402; BR 112018076496 B1 20230117; DK 3476320 T3 20211018; ES 2599389 A1 20170201; ES 2599389 B2 20171229; ES 2899989 T3 20220315; PL 3476320 T3 20220103; PL 3476320 T4 20220103; PT 3476320 T 20211116; US 10568670 B2 20200225; US 2019380751 A1 20191219; WO 2018050944 A1 20180322

DOCDB simple family (application)
EP 17850343 A 20170918; BR 112018076496 A 20170918; DK 17850343 T 20170918; ES 17850343 T 20170918; ES 201631220 A 20160919; ES 2017070619 W 20170918; PL 17850343 T 20170918; PT 17850343 T 20170918; US 201716311478 A 20170918